Examiner: Laura A. Bouchelle

Group Art Unit: 3763

CLAIMS

1-15. (Canceled)

16. (Currently Amended) A method for delivering an extrudable material within a body of a mammal, the method comprising the steps of: (a) providing a delivery catheter, the delivery catheter comprising: (1) a first elongated member defining a first distal opening and a first lumen extending within the first elongated member, the first elongated member for delivering a first material through the first lumen and into a distal section of the first lumen near the first distal opening; and (2) a second elongated member comprising a distal valve and a second lumen extending within the second elongated member, the second elongated member for delivering a second material through the second lumen and the distal valve, at least a portion of the second elongated member being slidably disposed within at least a portion of the first lumen such that the distal valve is selectively slidable (i) to allow delivery of the second material through the second lumen and the distal valve and into the distal section, and (ii) to push at least some of the first and second materials from the distal section and out of the first distal opening; and (b) extruding a fibrous material out of the distal section and into the body of a mammal, wherein step (b) comprises i. delivering the first material comprising a crosslinking agent to the distal section through the first lumen; ii. delivering the second material comprising a crosslinkable polymer to the distal section through the second lumen, thereby forming a fibrous material in the distal section; and iii. pushing the fibrous material out of the distal section by sliding distally and longitudinally the distal valve into the distal section.

17. (Canceled)

- 18. (Original) The method of claim 16 wherein the distal valve comprises a one-way flow-control valve.
- 19. (Original) The method of claim 17 wherein the first material surrounds the second material when the second material enters the distal section.

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20. (Currently Amended) The method of claim 18 wherein step (b) further comprises cutting the

fibrous material by operating the valve.

21. (Canceled)

22. (Currently Amended) The method of claim 18 wherein step (b) further comprises

terminating the delivery of either the first material or the second material thereby terminating

formation of the fibrous material.

23. (Currently Amended) The method of claim 47 16 wherein at least one of the first and second

materials further comprises a bioadhesive agent.

24. (Currently Amended) The method of claim 23 wherein the bioadhesive agent is selected

from a group consisting essentially of collagen, laminin, fibronectin, poly-D-lysine, poly-L-

lysine, and decapeptides.

25. (Currently Amended) The method of claim 17 16 wherein the crosslinking agent comprises

an ionic crosslinker.

26. (Original) The method of claim 25 wherein the crosslinking agent comprises a polycationic

crosslinker.

27. (Original) The method of claim 26 wherein the polycationic crosslinker comprises a calcium

ion.

28. (Currently Amended) The method of claim 47 16 wherein the crosslinkable polymer

comprises an alginate.

29. (Original) The method of claim 16 further comprising the step of positioning the distal

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section of the catheter within the body of a mammal.

30. (Currently Amended) The method of claim 47 16 wherein the steps of delivering the first and second materials are sustained so as to form a fibrous material within the distal section and extrude the fibrous material out of the distal section and into the body of a mammal

31. (New) A method for delivering an extrudable material within a body of a mammal, the method comprising the steps of: (a) providing a delivery catheter, the delivery catheter comprising: (1) a first elongated member defining a first distal opening and a first lumen extending within the first elongated member, the first elongated member for delivering a first material through the first lumen and into a distal section of the first lumen near the first distal opening; and (2) a second elongated member comprising a distal valve and a second lumen extending within the second elongated member, the second elongated member for delivering a second material through the second lumen and the distal valve, at least a portion of the second elongated member being slidably disposed within at least a portion of the first lumen such that the distal valve is selectively slidable (i) to allow delivery of the second material through the second lumen and the distal valve and into the distal section, and (ii) to push at least some of the first and second materials from the distal section and out of the first distal opening; and (b) extruding a fibrous material out of the distal section and into the body of a mammal wherein step (b) comprises i. delivering the first material comprising a crosslinking agent to the distal section through the first lumen; and ii. delivering the second material comprising a crosslinkable polymer to the distal section through the second lumen, thereby forming a fibrous material in the distal section, wherein the crosslinking agent comprises an ionic crosslinker comprising a polycationic crosslinker.

32. (New) A method for delivering an extrudable material within a body of a mammal, the method comprising the steps of: (a) providing a delivery catheter, the delivery catheter comprising: (1) a first elongated member defining a first distal opening and a first lumen extending within the first elongated member, the first elongated member for delivering a first material through the first lumen and into a distal section of the first lumen near the first distal

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opening; and (2) a second elongated member comprising a distal valve and a second lumen extending within the second elongated member, the second elongated member for delivering a second material through the second lumen and the distal valve, at least a portion of the second elongated member being slidably disposed within at least a portion of the first lumen such that the distal valve is selectively slidable (i) to allow delivery of the second material through the second lumen and the distal valve and into the distal section, and (ii) to push at least some of the first and second materials from the distal section and out of the first distal opening; and (b) extruding a fibrous material out of the distal section and into the body of a mammal wherein step (b) comprises i. delivering the first material comprising a crosslinking agent to the distal section through the first lumen; and ii. delivering the second material comprising a crosslinkable polymer to the distal section through the second lumen, thereby forming a fibrous material in the distal section, wherein the crosslinking agent comprises an ionic crosslinker comprising a polycationic crosslinker which comprises a calcium ion.